

## ABSTRACT OF THE DISCLOSURE

The invention includes methods useful for the diagnosis of Alzheimer's disease and the evaluation of enhanced levels of lipid peroxidation in a mammal. The methods utilize isoprostanes as sensitive and stable molecular markers for lipid peroxidation in a mammal. Methods of identifying compounds useful for the treatment of Alzheimer's disease or for reducing levels of lipid peroxidation in a mammal are also included. The invention also includes kits useful for the diagnosis of Alzheimer's disease and for the evaluation of levels of lipid peroxidation in a mammal.

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